

Amendments to the Specification:

Please replace paragraph 0051 with the with the following replacement paragraph:

Finally, while the circuitry for reading the resistance has been described as an ohmmeter 90 which returns a reading that is related to the linear location of a detected leak along the sensing wire, alternative circuitry is also envisioned. For example, the ohmmeter readout may be directly translated to a location or region readout (not shown) for convenience of the operator or servicing technician. Personal computers 100, programmable logic controllers (PLCs) 102, or embedded processors 104 as commonly employed in wet bench apparatus may be employed to provide the function of an ohmmeter or equivalent. For example, a predetermined current provided to the sensing wire and a voltage sensing circuit provide voltage and current quantities in the sensing wire that may be used to calculate the resistance and hence the position of a liquid leak or more directly to determine the existence and location of a fluid leak directly from the sensed voltage and predetermined current. Alternatively, a predetermined voltage provided to the sensing wire and a current sensing circuit will also provide voltage and current quantities in the sensing wire that may be used to calculate the resistance and hence the position of a liquid leak or more directly to determine the existence and location of a fluid leak directly from the sensed current and predetermined voltage.